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| <u>L12</u> | 711.clas. | 23913 | <u>L12</u> |
| <u>L11</u> | 715/533 | 309 | <u>L11</u> |
| <u>L10</u> | 715/513 | 2083 | <u>L10</u> |
| <u>L9</u> | 715.clas. | 20176 | <u>L9</u> |
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| <u>L7</u> | 707/100 | 5637 | <u>L7</u> |
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| <u>L5</u> | 705/44 | 955 | <u>L5</u> |
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| <u>L3</u> | 705/5 | 903 | <u>L3</u> |
| <u>L2</u> | 705/1 | 5548 | <u>L2</u> |
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L32: Entry 8 of 33

File: USPT

Sep 2, 2003

US-PAT-NO: 6615253

DOCUMENT-IDENTIFIER: US 6615253 B1

**** See image for Certificate of Correction ****

TITLE: Efficient server side data retrieval for execution of client side applications

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|------------------|-------|----------|---------|
| Bowman-Amuah; Michel K. | Colorado Springs | CO | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---------------|-----------|-------|----------|---------|-----------|
| Accenture LLP | Palo Alto | CA | | | 02 |

APPL-NO: 09/ 387430 [PALM]

DATE FILED: August 31, 1999

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is related to United States Patent Applications entitled A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A DEVELOPMENT ARCHITECTURE FRAMEWORK U.S. patent application Ser. No. 09/387,747, filed Aug. 31, 1999 and A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR MAINTENANCE AND ADMINISTRATION IN AN E-COMMERCE APPLICATION FRAMEWORK U.S. patent application Ser. No. 09/387,318, both of which are filed concurrently herewith and which are incorporated by reference in their entirety.

INT-CL: [07] G06 F 15/16, G06 F 12/00, G06 F 17/00

US-CL-ISSUED: 709/219; 711/118, 707/100

US-CL-CURRENT: 709/219; 707/100, 711/118

FIELD-OF-SEARCH: 709/217, 709/218, 709/219, 709/203, 709/234, 709/231, 709/232, 707/100, 711/118

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

5047918

September 1991

Schwartz et al.

707/203

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| <input type="checkbox"/> | <u>5133075</u> | July 1992 | Risch | 707/201 |
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| <input type="checkbox"/> | <u>5241580</u> | August 1993 | Babson, III | 379/15 |
| <input type="checkbox"/> | <u>5291593</u> | March 1994 | Abraham et al. | 707/103 |
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| <input type="checkbox"/> | <u>5301320</u> | April 1994 | McAttee et al. | 395/650 |
| <input type="checkbox"/> | <u>5313636</u> | May 1994 | Noble et al. | 707/1 |
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| <input type="checkbox"/> | <u>5463686</u> | October 1995 | Lebourges | 379/220 |
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| <input type="checkbox"/> | <u>5568644</u> | October 1996 | Nelson et al. | 395/741 |
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| | <u>5737607</u> | April 1998 | Hamilton et al. | 395/701 |

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| <input type="checkbox"/> | <u>5892909</u> | April 1999 | Grasso et al. 709/201 |
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| <input type="checkbox"/> | <u>6141660</u> | October 2000 | Bach et al. | 345/352 |
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| | <u>6157940</u> | December 2000 | Marullo et al. | 709/22 |

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| <input type="checkbox"/> <u>6182182</u> | January 2001 | Bradley et al. | 710/129 |
| <input type="checkbox"/> <u>6202099</u> | March 2001 | Gillies et al. | 709/317 |
| <input type="checkbox"/> <u>6223209</u> | April 2001 | Watson | 709/201 |
| <input type="checkbox"/> <u>6243392</u> | June 2001 | Uemura et al. | 370/465 |
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| <input type="checkbox"/> <u>6272556</u> | August 2001 | Gish | 709/315 |
| <input type="checkbox"/> <u>6321274</u> | November 2001 | Shakib et al. | 709/328 |

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| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
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| 0123456 | January 2000 | EP | 100/100 |
| WO92/01251 | January 1992 | WO | |
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| PCT/US00/23885 | August 2000 | WO | |
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| PCT/US00/24082 | August 2000 | WO | |
| PCT/US00/24083 | August 2000 | WO | |
| PCT/US00/24084 | August 2000 | WO | |
| PCT/US00/24085 | August 2000 | WO | |
| PCT/US00/24086 | August 2000 | WO | |
| PCT/US00/24125 | August 2000 | WO | |
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ART-UNIT: 2153

PRIMARY-EXAMINER: Lim; Krisna

ATTY-AGENT-FIRM: Oppenheimer Wolff & Donnelly LLP

ABSTRACT:

A system, method, and article of manufacture are provided for efficiently retrieving data. A total amount of data required for an application executed by a client is determined. In a single call, the total amount of data from a server is requested over a network. All of the data is bundled into a data structure by the server in response to the single call. The bundled data structure is sent to the client over the network and the data of the data structure is cached on the client. The cached data of the data structure is used as needed during execution of the application on the client.

18 Claims, 195 Drawing figures

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L32: Entry 32 of 33

File: USPT

Dec 26, 2000

US-PAT-NO: 6167405

DOCUMENT-IDENTIFIER: US 6167405 A

TITLE: Method and apparatus for automatically populating a data warehouse system

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------------|---------|-------|----------|---------|
| Rosensteel, Jr.; Kenneth R. | Phoenix | AZ | | |
| Guhr; Jerry T | Phoenix | AZ | | |
| Picone; Joseph K. | Phoenix | AZ | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|----------------------------------|-----------|-------|----------|---------|-----------|
| Bull HN Information Systems Inc. | Billerica | MA | | | 02 |

APPL-NO: 09/ 067101 [\[PALM\]](#)

DATE FILED: April 27, 1998

INT-CL: [07] [G06 F 17/30](#)

US-CL-ISSUED: 707/102

US-CL-CURRENT: [707/102](#)

FIELD-OF-SEARCH: 707/6, 707/101, 707/102, 395/785

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|-------------------------|---------------|------------------|---------|
| <input type="checkbox"/> | 5708828 | January 1998 | Coleman | 395/785 |
| <input type="checkbox"/> | 5870746 | February 1999 | Knutson | 707/101 |
| <input type="checkbox"/> | 5918232 | June 1999 | Pouschine et al. | 707/103 |

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"The Distributed Data Warehouse Solution", by Kirk Mosher and Ken Rosensteel,

Groupe Bull Technical Update, May/Jun. 1995, pp. 11-18 Copyright Jun. 1995.
"Bull Warehouse Initiative", by Wayne W. Eckerson, Oct. 1996, Patricia Seybold Group, pp. 1-28, Copyright 1996.

ART-UNIT: 271

PRIMARY-EXAMINER: Amsbury; Wayne

ATTY-AGENT-FIRM: Driscoll; Faith F. Solakian; John S.

ABSTRACT:

A method and system for facilitating the creation of warehouse requests in a data warehouse system. During the design of the data warehouse tables, a repository tool is used for storing a number of new objects such as source and target databases, source and target tables and warehouse requests that are graphically defined and linked together by an administrator with the repository tool. The resulting visual design is so drawn so as to serve as input for each warehouse request to be generated. The administrator invokes a data replication component that operatively couples to the repository tool signaling that the warehouse request is to be implemented. The data replication component automatically creates the different subcomponents of the request by accessing various links stored by the repository tool and displays a visual representation of the subcomponents and their relationships to each other to the administrator. Thereafter, the replication component provides access to menu screens for enabling the administrator to visualize each of the subcomponents of the request and their properties for enabling modifications to be made to such subcomponents for completing configuration of all request subcomponents. Subsequently, the warehouse request can be scheduled to execute and populate the warehouse tables.

35 Claims, 13 Drawing figures

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L32: Entry 33 of 33

File: USPT

Sep 7, 1999

US-PAT-NO: 5950190

DOCUMENT-IDENTIFIER: US 5950190 A

TITLE: Dynamic, self-modifying graphical user interface for relational database applications

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|------------------|-------|----------|---------|
| Yeager; Carolyn Marie | Colorado Springs | CO | | |
| Udy; Jerry Lynn | Colorado Springs | CO | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|-------------|------------------|-------|----------|---------|-----------|
| Aptek, Inc. | Colorado Springs | CO | | | 02 |

APPL-NO: 08/ 854928 [\[PALM\]](#)

DATE FILED: May 13, 1997

INT-CL: [06] [G06](#) [F](#) [17/30](#)

US-CL-ISSUED: 707/3; 707/511, 707/103

US-CL-CURRENT: [707/3](#); [715/511](#)

FIELD-OF-SEARCH: 707/4

PRIOR-ART-DISCLOSED:

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OTHER PUBLICATIONS

Chapter 12, "Implementing Dynamic SQL Method 4", from Oracle Programmers Guide, Release 2.1; Mar. 1995; Part No. A21020-2.

ART-UNIT: 271

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ABSTRACT:

A dynamic database interface for relational and object-oriented databases includes a dynamic, self-modifying graphical user interface defining a plurality of graphical windows for searching and editing the contents of the relational database, as well as modifying the structure of the database tables. The graphical user interface recognizes modifications to the structure of the database tables and regenerates the graphical windows to accommodate such modifications. The graphical windows also depict schematic representations of physical locations of objects stored within the tables of the relational database. In addition to using the graphical windows to edit the contents and modify the structure of the relational database, batches of data may be imported to both edit the contents of the relational database and modify the structure of the relational database tables.

26 Claims, 21 Drawing figures

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